

## KIDS DISCOVER TELESCOPES

1. What are electromagnetic waves? (p.2) What distinguishes each type of electromagnetic radiation?
2. Name the types of electromagnetic radiation in order from smallest wavelength to largest. (p2/3)
3. How fast does light and all other electromagnetic radiation travel? (p.4) How long does it take light to reach Earth from Bellatrix?
4. Describe the different types of telescopes. (p 5)
  - a. Reflecting
  - b. Refracting
  - c. Combination
5. Make a timeline for the events listed on p. 6&7. List the events and dates as show in the timeline of events in the history of telescopes.
6. What is the VLT? List two facts about the VLT. (p. 8)

7. What are mirrors for telescopes made from and how accurate are they? (p. 8)
8. How many radio telescopes make up the Very Large Array in New Mexico? (p.9)
9. Who was first to classify stars and how did he classify them? (p9)
10. How long does it take Hubble to orbit Earth? What types of electromagnetic radiation can Hubble "see"? (p. 12)
11. Name the four space telescopes and the type of electromagnetic radiation they "see". (p. 13)
  - a.
  - b.
  - c.
  - d.
12. Name four things that telescopes will look for in the future. (p. 14-15)
13. How old is the Universe and which 3 telescopes helped determine this? (p. 15)
14. What are the top 5 items stargazers should have?